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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/314,750	05/19/1999	HIROSHI MURAKAMI	0941.63081	5601

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EXAMINER

LESPERANCE, JEAN E

ART UNIT PAPER NUMBER

2674

DATE MAILED: 03/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/314,750

Applicant(s)
Hiroshi Murakami

Examiner
Jean Lesperance

Art Unit
2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Mar 5, 2002
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 8 20) ☐ Other:

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DETAILED ACTION

Drawings

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 U.S.C. § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7 and 11 are rejected under 35 U. S. C. 103 (a) as being unpatentable over patent # 5,168,270 ("Masumori et al.") in view of patent # 5,594,908 ("Hyatt").

As for claim 1, Masumori et al. teach a broken-line squares each represent a smallest resolvable display unit (pixel) of the image displayed (column 7, lines 43-44) corresponding to a display unit which displays an image; data lines of the display panel 30 from the source driver divisions 13_1 and 13_s (column 7, lines 18-20) corresponding to a display-data line which supplies data of the image from an exterior to said display unit; in the double definition display mode the control part 10 (column 7, lines 45-46) corresponding to an operation circuit unit which controls said display unit; the corresponding data buses of the display panel 30 (column 5, line 50) corresponding to a data bus which connects said memories to an exterior of said display

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device, and supplies the information to said memories from the exterior of said display device; and data D2m/s are written into m/S addresses of the memory (column 5, lines 14-15) corresponding to an address bus which connects said memories to the exterior of said display device. Accordingly, Masumori et al. teach all the claimed limitations as recited in claim 1 with the exception of providing memories which store information for controlling displaying of the data of the image on said display unit, said information being different from said data of the image.

However, Hyatt teaches to access a location in the memory 30 storing information to exit the third numeric display with the proper character (column 13, lines 31-33) corresponding to memories which store information for controlling displaying of the data of the image on said display unit, said information being different from said data of the image.

It would have been obvious to utilize access a location in the memory 30 storing information as taught by Hyatt in the liquid crystal display disclosed by Masumori et al. because this would allow the user to have more control over the display control parameters.

As for claims 2-7, Masumori et al. teach a gate driver Fig.2 (122), a data driver (column 19, lines 11-18), a shift register (column 5, lines 51-68), a decoder (column 12, lines 5-12), an address counter (column 4, lines 58-68), memory store (column 1, lines 29-50), a data-synthesis circuit Fig.21 (20).

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As for claim 11, Masumori et al. teach a thin film transistor (column 12, lines 29-44) most TFT's are made of polysilicon material; color pixels on the display panel in the case of double definition (column 8, lines 63-65) corresponding to a plurality of pixel electrodes.

Claim Rejections - 35 U.S.C. § 112

3. Claims 8-10 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The subject matter "Display-information acquisition circuit".

Response to Amendment

Applicant's arguments filed on 3-5-2002 have been fully considered but they are not persuasive. The applicant argued that the prior art used does not disclose control of the display unit is stored in the memories. The examiner agrees but has found another prior art reading on the limitation. Hyatt teaches to access a location in the memory 30 storing information to exit the third numeric display with the proper character (column 13, lines 31-33) corresponding to a control of the display unit is stored in the memories. The applicant argued that the examiner does not answer an argument made by the applicant traversing the rejection of claims 8-11 but examiner has found in claims 8-10 that some subject matter was not described in the specification. They are rejected under 112 1st paragraph. Claim 11 is still rejected under 103 (a). Therefore the rejection stands as was rejected in the previous office action.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner can normally be reached on from Monday to Friday between 8:00AM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709 .

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance



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Date 3-14-2001



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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